



Revision number: 2

Purchasing Agent: Debbie Gundersen

Item: SNOW PLOW 12 FOOT POWER REVERSING LONG GULL WING

Vendor: 00938A H & K Truck Equipment
1103 South 700 West
Salt Lake City UT 84104-1543

Internet Homepage:

Telephone: (801) 886-3000

Fax number: (801) 886-0424

Contact: Kevin Hamrick

Email address:

Brand/trade name: Monroe

Price: See Attached Price List

Terms: Net

Effective dates: 10/1/98 through 04/1/01

Days required for delivery: 75 days

Price guarantee period: 1 year

Minimum order: One

Min shipment without charges: None

Other conditions:

REVISION #2: CONTRACT HAS BEEN EXTENDED THROUGH 04/01/01.

This contract covers only those items listed in the price schedule. It is the responsibility of the agency to ensure that other items purchased are invoiced separately. State agencies will place orders directly with the vendor (creating a PG in Finet) and make payments for the same on a PV referencing the original PG. Agencies will return to the vendor any invoice which reflects incorrect pricing.



- 1- Snow Plow, 12 foot, power reversing, long gull wing, Monroe reversible compression trip delivered. \$4,929.00/ea.

DETAIL SPECIFICATIONS

- Moldboard** To be 3/16" thick and 60 inches high at the ends and tapering to approximately 46 inches at the center. The ends of the moldboard to be squared with the cutting edges with 6" cutting edges attached. To be smooth formed with integral extension similar to moldboard contour as shown on the attached drawing. Moldboard not to be press broken.
- to To have 1/2 inch thick by 12 inch wide, 4 cord minimum rubber belting shield. Rubber shield is be bolted to moldboard in approximately a 45 degree position, with reinforcement bar across the front for strength. Bars strong enough not to bend in normal operation of plow.
- To have 6 minimum, one piece ribs, each will be approximately 4 inches wide at the bottom and taper to 2 1/2 inches at the top by 1/2 inch thick as a minimum. Ribs to be one piece (no weld joints) and run from top to bottom of moldboard. Ribs to have continuous weld on both sides, to moldboard. To have at least 3 horizontal stiffeners, running the full length of moldboard and spaced at an equal distance from bottom edge of plow and the top edge. Stiffeners to be 2 inch x 2 inch x 3/8 inch minimum angle, with angle legs welded continuously to moldboard and ribs.
- Using a "Z Design" as shown in drawing (1 of 8) attach bottom angle to moldboard. Angle is to be 4 inch x 4 inch material. Both flange edges of angle to be welded continuously to back side of moldboard. Attach a 1/2 inch x 4 inch flat bar under the angle on moldboard with continuous welds. Gussets are to be welded to bottom side of angle, and to the flat bar every 12 to 18 inches.
- Cutting Edges** To have double cutting edges installed.
First edge to have tungsten carbide inserts.
Second edge to be bolted in front of carbide insert edge.
- Safety Trip** To have tow single or one double heavy compression spring trip.
Spring will have provisions for adjustment of cutting angle, that includes 12 degrees to 24 degrees back from vertical. Springs to have strength to hold plow at position within 1degree from adjusted setting when full weight of plow is on edges and pushed forward. To have rubber stops to stop the plow from full tripping.
- Push Beam** Push beam to be 4 inch x 4 inch x 3/8 inch minimum, square tube, to be long enough to fasten to at least four each of the vertical ribs. The beam shall be attached to the moldboard at a minimum of 4 places, two of which are at the ends of the beam. These attachments shall be made on the ribs of the moldboard. Ribs to be reinforced at attached points. No holes in square tubing for any mounting purposes.
- Build up attachment points of the push beam to moldboard, and trip springs to moldboard, such that, the vertical ribs are 1 inch thick around drilled holes. Extra plates required are welded on three sides solid welds, the top is not to be welded but caulked before painting.
- Weight** Weight of the complete plow, including cylinders and cutting edges should be 1700 lb. to 2000 lb. Heavier plows will be considered, based on special features and engineering evidence that additional weight is needed to provide a desirable strength.



Attachment Plow hitch requested will be a State of Utah Universal Quick Hitch or equal. Hitch will be attached to the circle frame in a manor to maintain the circle at or near horizontal positioning when attached to U.D.O.T. truck receiver. The receivers locking pin will be 15" inches to center above ground level. Attaching ears will be designed to protrude 4 in. into the receiver and hook to the pin. Distance between ears is to be 27 1/2 inches minimum.

Paint Paint shall be either Powder coat or Emeron paint and have a minimum of 4 mills of paint. The paint ins to have a 2 year warranty. Befor painting, the plow shall be sandblasted. If emeron painted vendor shall use the paint in accordance with paint manufacture specifications. Paint color to match a 1999 International paint code 0311 Sikkens Omaha Orange.

**Sectional Tungsten
Carbide Cutting
Edge**

The blade shall be flat hot-rolled finished steel SAE 1020-1045. Punching shall be 11/16 inch diameter holes, each to be counter sunk to receive a 5/8 inch No. 3 plow bolt.

The finished blade sections shall be free of warpange and longitudinal deviation not to exceed 1/8 inch in a four-foot blade section.

The finished blade sections shall be given one coat of rust resistant laquer.

Cover Blades The blade shall be flat square edge, square ends.

Punching shall be a standard highway punch at a 1-1/2 inch Gage, with 11/16 inch square counter-sunk holes to receive a 5/8 inch plow bolt.

Steel to be high grade, open hearth, basic oxygen or electric furnace steel of the following chemistry.

Carbon .80 to .93
Manganese .60 to .90
Sulphur .50 Max.
Phosphorous .40 Max.
Silicone .15 to .30

Mechanical property Brinell hardness 255 to 321

Blade dimension 3/4 inches x 72 inches
Center of holes must be in line with 1/16 inch of established centerline.
Limits and tolerances unless otherwise specified not to exceed 1/16 inch.

OPTIONS

1. One complete circle frame with the push beam assembly. Not including cylinders or springs.
Option price \$792.00
2. Supply (11) eleven additional plow rams as per specifications.
Option price \$2252.00
3. Supply plows with shear bar system.
Option price (\$40.00)



Three year extended warranty covering parts and labor on all items not associated with normal wear or accidents. Warranty to provide reimbursement for "In House" repair, work to be done by Utah Department of Transportation employees in Utah Department of Transportation shops.

Option price \$210.00

Training

The vendor shall provide one day of training on operation and maintenance of snow plows.

Parts & Service

The servicing and supplying of parts for maintenance should be available in the Salt Lake City area.

Delivery

Delivery must include the following:

- dealer's invoice
- a copy of warranty
- operator's manual for each unit
- 7 complete sets of manuals including part list, repair manual, operators manual

Cost of these manuals is to be included in bid price. Invoices will not be approved for payment until all documentation and manual have been received.

Reports

The contractor will submit yearly reports to the State Purchasing Agent (Debbie Gundersen) showing quantities and dollar volume of purchases by each agency and political subdivision. This report will be due by 9/1/99.

FINET COMMODITY CODE(S): **FOR AGENCY USE ONLY**

76561000000 - SNOW PLOWS, VEHICLE MOUNTED